

AMENDMENTS TO THE CLAIMS

1. - 42. (Cancelled)

43. (Amended Three Times) An interlocking ball and socket joint comprising:
a coupling member partially formed of a resilient deformable material having a substantially
smooth part spherical outer peripheral surface and having a reduced diameter neck at a side thereof
opposed to the part spherical outer peripheral surface thereof;

a bifurcated arm assembly comprising first and second arm sections formed with operatively
opposed first sockets in respective first end portions thereof, the first sockets having opposing
concave interior faces shaped to substantially conform to the substantially smooth part spherical
outer peripheral surface of the coupling member, and having rims formed thereabout in the faces of
the respective arm sections, and indentations in the respective rims thereof at a plane of a line of
juncture between the arm sections, which together are greater in width than the neck so that the
bifurcated arm assembly can be rotated about a locus of the coupling member to angular
orientations in which the line of juncture extends at right angles to the neck of the coupling member;
and

an adjustable clamp configured and arranged to provide a plurality of different adjustment
relationships to the opposing concave interior faces of the first sockets,

one adjustment of the clamp conforming the opposing concave interior faces of the
first sockets in a relatively rotational relationship with the coupling member, and

another adjustment of the clamp conforming the opposing concave interior faces of
the first sockets in an interlocking relationship with the coupling member, wherein the opposing
concave interior faces of the first sockets radially compress and deform at least a portion of the
resilient deformable material of the coupling member.

44. The interlocking ball and socket joint of claim 43, further comprising:
a second coupling member partially formed of a resilient deformable material having a
substantially smooth part spherical outer peripheral surface and having a projection extending
outside the resilient deformable material; and

operatively opposed second sockets formed in respective second end portions of the first and second relatively rigid arm sections and having opposing concave interior faces shaped to substantially conform to the substantially smooth part spherical outer peripheral surface of the second coupling member; and

wherein:

the adjustable clamp is configured and arranged to provide a plurality of adjustment relationships to the opposing concave interior faces of the second sockets,

one adjustment of the clamp conforming the opposing concave interior faces of the second sockets in a relatively rotational relationship with the second coupling member, and

another adjustment of the clamp conforming the opposing concave interior faces of the second sockets in an interlocking relationship with the second coupling member, wherein the opposing concave interior faces of the second sockets radially compress and deform at least a portion of the resilient deformable material of the second coupling member.

45. The interlocking ball and socket joint of claim 44, further comprising a spring disposed between the first and second relatively rigid arm sections, wherein the adjustable clamp, in combination with the spring, is configured and arranged to apply differential clamping forces between the first and second sockets.

46. - 49. (Cancelled)

50. (Twice Amended) An interlocking ball and socket joint comprising:
a coupling member having a radially compressible material formed in a substantially smooth spherical shape, the coupling member having a reduced diameter neck portion at a side thereof opposed to a part spherical outer peripheral surface thereof and extending outside of the radially compressible material;

a plurality of first sockets formed in a bifurcated arm assembly comprising rigid arm sections, the first sockets having substantially smooth concave radial surfaces and having rims formed thereabout in faces of the respective arm sections, and indentations in the respective rims

thereof at a plane of a line of juncture between the arm sections, which together are greater in width than the neck portion so that the bifurcated arm assembly can be rotated about a locus of the coupling member to angular orientations in which the line of juncture extends at right angles to the neck portion of the first coupling member; and

an adjustable clamp mechanically attached to the rigid arm sections and configured and arranged to position the first sockets in a plurality of opposing relationships to one another,

one adjustment of the clamp positioning the first sockets in an opposing relationship on either side of the coupling member and relatively rotatable thereto, and

an other adjustment of the clamp positioning the first sockets in an opposing relationship on either side of the coupling member and compressing the radially compressible material thereof, such that the first sockets substantially compress the coupling member and interlock the first sockets with the coupling member in a relative angular orientation.

51. The interlocking ball and socket joint of claim 50, further comprising:

a second coupling member having a radially compressible material formed in a substantially smooth spherical shape, the second coupling member further comprising a projection extending outside of the radially compressible material;

second sockets having substantially smooth concave surfaces; and wherein:

the one adjustment of the clamp positioning the second sockets in an opposing relationship on either side of the second coupling member and relatively rotatable thereto, and

the other adjustment of the clamp positioning the second sockets in an opposing relationship on either side of the second coupling member and compressing the radially compressible material thereof to interlock the second sockets with the second coupling member in a relative angular orientation.

52. - 58. (Cancelled)

59. (Amended Three Times) An interlocking ball and socket joint comprising:

a coupling member partially formed of a resilient deformable material in a substantially smooth part globular shape and having a reduced diameter neck portion at a side thereof opposed to

a part spherical outer peripheral surface thereof and extending outside the globular shape, the neck portion having a reduced diameter relative to the globular shape of the coupling member;

a bifurcated arm assembly formed of at least two arm sections, the arm assembly having sockets formed in opposing interior surfaces thereof, the sockets being shaped to substantially conform to the substantially smooth part globular shape of the coupling member, the sockets having rims formed thereabout in faces of the respective arm sections and indentations in the respective rims thereof at a plane of a line of juncture between the arm sections, which together are greater in width than the neck portion so that the bifurcated arm assembly can be rotated about a locus of the coupling member to angular orientations in which the line of juncture extends at right angles to the neck portion of the coupling member;

an adjustable clamp configured and arranged to provide a plurality of different adjustment relationships to the opposing interior surfaces of the sockets,

one adjustment of the clamp conforming the opposing interior surfaces of the sockets in a relatively rotational relationship with the coupling member, and

another adjustment of the clamp conforming the opposing interior surfaces of the sockets in an interlocking relationship with the coupling member.

60. (Cancelled)

61. (Amended Three Times) An interlocking ball and socket joint comprising:
a coupling member having a radially compressible material formed in a substantially unbroken spherical shape and having a reduced diameter neck at a side thereof opposed to a part spherical outer peripheral surface thereof and extending outside of the spherical shape;

a bifurcated arm assembly formed of at least two arm sections having sockets formed in opposing interior surfaces thereof, the sockets each having substantially smooth concave surfaces, the sockets having rims formed thereabout in faces of the respective arm sections and indentations in the respective rims thereof at a plane of a line of juncture of the arm sections, which together are greater in width than the neck so that the bifurcated arm assembly can be rotated about the locus of

the coupling member to angular orientations in which the line of juncture extends at right angles to the neck of the coupling member; and

an adjustable clamp mechanically attached to the respective arm sections and configured and arranged to position the sockets in a plurality of opposing relationships to one another,

one adjustment of the clamp positioning the sockets in an opposing relationship on either side of the coupling member and relatively rotatable thereto, and

another adjustment of the clamp positioning the sockets in an opposing relationship on either side of the coupling member and compressing the radially compressible material thereof to interlock the sockets with the coupling member in a relative angular orientation.

62. The interlocking ball and socket joint of claim 43 wherein the coupling member is substantially centered on a first locus; and

the first and second arm sections form a bifurcated arm assembly having an apex at a second locus spaced apart from the first locus and having the first sockets substantially centered on the first locus and engaged about the coupling member.

63. (Amended Three Times) An interlocking ball and socket joint comprising:
a coupling member partially formed of a resilient deformable material in a substantially smooth part spherical shape centered on a first locus and having a reduced diameter neck portion at a side thereof opposed to a part spherical outer peripheral surface thereof and extending outside the spherical shape;

a bifurcated arm assembly comprising at least two arm sections and having first sockets formed of opposing concave interior surfaces centered on the first locus, the opposing concave interior surfaces being shaped to substantially conform to the substantially smooth part spherical shape of the coupling member and being engaged about the coupling member, the first sockets having rims formed thereabout in faces of the respective arm sections, and indentations in the respective rims thereof at a plane of a line of juncture between the arm sections, which together are greater in width than the neck portion so that the bifurcated arm assembly can be rotated about the first locus

of the coupling member to angular orientations in which the line of juncture extends at right angles to the neck portion of the coupling member; and

an adjustable clamp coupled to the split arm assembly, the adjustable clamp being configured and arranged to provide a plurality of different adjustment relationships to the first sockets,

one adjustment of the clamp conforming the first sockets in a relatively rotational relationship with the coupling member, and

another adjustment of the clamp conforming the first sockets in an interlocking relationship with the coupling member.

64 - 66. (Canceled)

67. The interlocking ball and socket joint of claim 43 wherein the adjustable clamp further comprises mutually engageable internally and externally threaded members.

68. (Twice Amended) The interlocking ball and socket joint according to claim 67 wherein the externally threaded member further comprises a threaded rod, and the mutually engageable internally and externally threaded members are structured for relative rotational motion for moving the internally threaded member along a length of the externally threaded member.

69. (Amended) The interlocking ball and socket joint according to claim 68 wherein the internally threaded member further comprises a knob.

70. (Amended) A mounting device, comprising:

a coupling member comprising a substantially spherical head and a reduced diameter neck at a side thereof opposed to a part spherical outer peripheral surface thereof and extending from the head, the spherical head comprising a substantially smooth outer surface of resilient deformable material;

a bifurcated arm assembly comprising a plurality of arm sections, at least two of the arm sections forming first sockets at end portions of the respective arm sections, the first sockets comprising rims formed thereabout in faces of the respective arm sections, and indentations in the respective rims thereof at a plane of a line of juncture of the arm sections, which together are greater

in width than the neck of the coupling member so that the bifurcated arm assembly can be rotated about a locus of the coupling member to angular orientations in which the line of juncture extends at right angles to the neck of the coupling member; and

an adjustable clamp coupled to at least two of the plurality of arm sections, the adjustable clamp being configured and arranged to provide a plurality of positions, wherein, in a first position of the adjustable clamp, the first sockets and first coupling member are rotatably engaged, and in a second position of the adjustable clamp, the first sockets and first coupling member are interlocked, with the first sockets deforming the resilient deformable material of the head of the first coupling member.

71. The mounting device of claim 70, wherein the arm sections are not all identically shaped.

72. The mounting device of claim 70, wherein the first sockets are two opposing first sockets.

73. The mounting device of claim 70, wherein a first one of the arm sections is smaller than a second one of the arm sections and wherein the first one and the second one of the arm sections form the first sockets.

74. The mounting device of claim 73, wherein the first one of the arm sections is hingedly secured to the second one of the arm sections.

75. The mounting device of claim 70, wherein the mounting device comprises at least three arm sections.

76 - 81. (Cancelled)

82. The mounting device of claim 70, wherein the resilient deformable material of the coupling member is an elastomeric material.

83. The mounting device of claim 82, wherein the elastomeric material comprises nitrile rubber.

84. The mounting device of claim 70, wherein the head of the coupling member has a Shore A durometer of between 30-100.

85. The mounting device of claim 70, wherein the head of the coupling member has a Shore D hardness of between 40 and 70.

86. The mounting device of claim 70, wherein the coupling member further comprises a disc-shaped base coupled to the neck.

87. The mounting device of claim 86, wherein the disc-shaped base of the coupling member defines three openings in the base forming an equilateral triangle.

88 - 94. (Canceled)